

PCT REQUEST

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0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form - PCT/RO/101 PCT Request	
0-4-1	Prepared using PCT-EASY Version 2.92 (updated 01.10.2002)	
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	
0-7	Applicant's or agent's file reference	
I	Title of invention RADIOISOTOPE GENERATOR AND METHOD OF CONSTRUCTION THEREOF	
II	Applicant	
II-1	This person is: applicant only	
II-2	Applicant for all designated States except US	
II-4	Name AMERSHAM PLC	
II-5	Address: Amersham Place Little Chalfont, Buckinghamshire HP7 9NA United Kingdom	
II-6	State of nationality GB	
II-7	State of residence GB	
III-1	Applicant and/or inventor	
III-1-1	This person is: applicant and inventor	
III-1-2	Applicant for US only	
III-1-4	Name (LAST, First) WEISNER, Peter, Stewart	
III-1-5	Address: Amersham plc The Grove Centre White Lion Road Amersham, Buckinghamshire HP7 9LL United Kingdom	
III-1-6	State of nationality GB	
III-1-7	State of residence GB	

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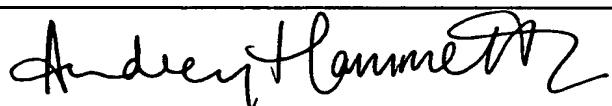
III-2	Applicant and/or inventor	
III-2-1	This person is:	
III-2-2	Applicant for	
III-2-4	Name (LAST, First)	
III-2-5	Address:	
III-2-6	State of nationality	
III-2-7	State of residence	
IV-1	Agent or common representative; or address for correspondence	
	The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	
IV-1-1	Name (LAST, First)	
IV-1-2	Address:	
IV-1-3	Telephone No.	
IV-1-4	Facsimile No.	
IV-1-5	e-mail	
IV-2	Additional agent(s)	
IV-2-1	Name(s)	

applicant and inventor
US only
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HAMMER, Catriona, MacLeod; FRANKS, Barry; CANNING, Lewis, Reuben; ROLLINS, Anthony, John

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V	Designation of States
V-1	<p>Regional Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)</p> <p>AP: GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW and any other State which is a Contracting State of the Harare Protocol and of the PCT</p> <p>EA: AM AZ BY KG KZ MD RU TJ TM and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT</p> <p>EP: AT BE BG CH&LI CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR and any other State which is a Contracting State of the European Patent Convention and of the PCT</p> <p>OA: BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG and any other State which is a member State of OAPI and a Contracting State of the PCT</p>
V-2	<p>National Patent (other kinds of protection or treatment, if any, are specified between parentheses after the designation(s) concerned)</p> <p>AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH&LI CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW</p>
V-5	<p>Precautionary Designation Statement</p> <p>In addition to the designations made under items V-1, V-2 and V-3, the applicant also makes under Rule 4.9(b) all designations which would be permitted under the PCT except any designation(s) of the State(s) indicated under item V-6 below. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit.</p>
V-6	Exclusion(s) from precautionary designations
VI-1	<p>Priority claim of earlier national application</p> <p>Filing date</p>
VI-1-1	11 April 2002 (11.04.2002)
VI-1-2	Number
VI-1-3	Country
	0208356.6
	GB

VI-2	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI - 1
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)
VIII	Declarations	Number of declarations
VIII-1	Declaration as to the identity of the inventor	-
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-
IX	Check list	number of sheets
IX-1	Request (including declaration sheets)	5
IX-2	Description	16
IX-3	Claims	5
IX-4	Abstract	1
IX-5	Drawings	1
IX-7	TOTAL	28
	Accompanying items	paper document(s) attached
IX-8	Fee calculation sheet	✓
IX-17	PCT-EASY diskette	-
IX-19	Figure of the drawings which should accompany the abstract	1
IX-20	Language of filing of the international application	English
X-1	Signature of applicant, agent or common representative	
X-1-1	Name (LAST, First)	HAMMETT, Audrey, Grace, Campbell

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10-1	Date of actual receipt of the purported international application	
10-2	Drawings: 10-2-1 Received 10-2-2 Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	

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10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

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11-1	Date of receipt of the record copy by the International Bureau	
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PCT (ANNEX - FEE CALCULATION SHEET)

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(This sheet is not part of and does not count as a sheet of the international application)

0	For receiving Office use only			
0-1	International Application No.			
0-2	Date stamp of the receiving Office			
0-4	Form - PCT/RO/101 (Annex) PCT Fee Calculation Sheet			
0-4-1	Prepared using	PCT-EASY Version 2.92 (updated 01.10.2002)		
0-9	Applicant's or agent's file reference	PZ0219-PCT		
2	Applicant	AMERSHAM PLC, et al.		
12	Calculation of prescribed fees	fee amount/multiplier	Total amounts (GBP)	
12-1	Transmittal fee	T	⇒	55
12-2-1	Search fee	S	⇒	592
12-2-2	International search to be carried out by	EP		
12-3	International fee			
	Basic fee			
	(first 30 sheets)	b1	278	
12-4	Remaining sheets	0		
12-5	Additional amount (X)	6		
12-6	Total additional amount	b2	0	
12-7	b1 + b2 =	B	278	
12-8	Designation fees			
	Number of designations contained in international application	95		
12-9	Number of designation fees payable (maximum 5)	5		
12-10	Amount of designation fee (X)	60		
12-11	Total designation fees	D	300	
12-12	PCT-EASY fee reduction	R	-86	
12-13	Total International fee (B+D-R)	I	⇒	492
12-14	Fee for priority document			
	Number of priority documents requested	1		
12-15	Fee per document (X)	22		
12-16	Total priority document fee	P	⇒	22
12-17	TOTAL FEES PAYABLE (T+S+I+P)		⇒	1,161
12-19	Mode of payment	authorization to charge deposit account		
12-20	Deposit account instructions			
	The receiving Office:	United Kingdom Patent Office (RO/GB)		
12-20-1	Authorization to charge the total fees indicated above.	✓		
12-20-2	Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.	✓		

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PZ0219-PCT

12-20-3	Authorization to charge the fee for priority document.	✓
12-21	Deposit account No.	DO3022
12-22	Date	09 December 2002 (09.12.2002)
12-23	Name and signature	HAMMETT, Audrey, Grace, Campbell <i>Audrey Hammett</i>

VALIDATION LOG AND REMARKS

13-2-3	Validation messages Names	Yellow Applicant 1.:Street address missing Green? Applicant 1.:Telephone No. missing Green? Applicant 1.:Facsimile No. missing
13-2-7	Validation messages Contents	Yellow! The power of attorney or a copy of the general power of attorney will need to be furnished unless all applicants sign the request form. Green? The abstract appears to be more than 150 words, applicant is reminded that it should be as concise as the disclosure permits (preferably 50 to 150 words if it is in English or when translated into English)
13-2-9	Validation messages Payment	Green? Please ensure that you have a valid deposit account with the receiving Office selected.

A device for producing a fluid containing a radioactive constituent, comprising a shielded chamber (5) with an opening for receiving an isotope container (6) housing a radioactive isotope (7); a chamber closure (18) adapted for cooperating with and closing the chamber opening; a first fluid port comprising a first hollow needle projecting into the shielded chamber from the chamber closure for fluid communication with the isotope container; a second fluid port comprising a second hollow needle projecting into the shielded chamber from the closed end of the chamber opposite the chamber closure for fluid communication with the isotope container; first and second compressible buffers (28, 29) mounted so as to surround at least partially the respective first and second hollow needles (12, 13), each buffer providing an outer surface for contact with opposed ends of the isotope container; and a spacer of a predetermined thickness associated with one or each of the first and second compressible buffers for determining the positioning of the isotope container within the shielded chamber.

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